

## 930A-, 930B-, 2930A-, 2930B-, AND 2931B-TYPE TELEPHONE SETS IDENTIFICATION, INSTALLATION, AND CONNECTIONS

### 1. GENERAL

1.01 This section contains information on the ELITE\* phone I (Fig. 1), 930A, 2930A-type; ELITE\* phone II (Fig. 2), 930B31, 930B30, 2930B31, 2930B30; and Commemorative (Fig. 3), 2931B33, and 2931B35 DESIGN LINE† decorator telephones. All of these telephone sets have been rated Manufacture Discontinued.

1.02 The reasons for reissuing this section are listed below. Revision arrows are used to emphasize the more significant changes.

- Show 930B30, 2930B30, and 2931B35 codes MD
- Update information on polarity guard.

**Warning:** Telephone apparatus or wiring shall not be installed in a location where minimum separation from other wiring as specified in Section 460-300-149 cannot be maintained.

1.03 The customer's premises must be properly wired with an appropriate connecting block at jack in order to accept the D4BU plug-ended mounting cord.

### 2. IDENTIFICATION

2.01 The 930- (rotary dial), 2930-, and 2931-type (TOUCH-TONE† telephone dial) equipped telephone sets are DESIGN LINE decorator telephones. The customer buys the housing and handset from the telephone company, and the telephone company retains ownership of the transmission and signaling components.

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†Trademark of American Telephone and Telegraph Company.



Fig. 1—930A- (MD) or 930B-Type (MD) DESIGN LINE Decorator Telephone



Fig. 2—2930B-Type (MD) DESIGN LINE Decorator Telephone

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Fig. 3—2931B35 (MD) DESIGN LINE Decorator Telephone

#### Component Parts Ordering Guide (Refer to Table A)

#### 2.02 Basic Telephone Set Ordering Information:

**Example:** Set, Telephone, 930B30-105‡ is a dark green set with gold trim and is equipped with a rotary dial and a green simulated leather vinyl applique.

2.03 ♦These sets are primarily used on single line or two-party service; however, they can be used on four- and eight-party service if a 28A ringer isolator is provided. For connection information on the ringer isolator, refer to Section 501-375-101.♦

#### 2.04 Optional Component (order separately):

- ♦D-180896 Kit of Parts (polarity guard assembly)♦

### 3. INSTALLATION AND CONNECTIONS

3.01 These telephone sets are furnished from the factory fully assembled and wired for bridged ringing. The P1A ringer is shipped from the factory with the bias spring in the low bias position. To connect the telephone set, plug the mounting cord into a 625-type connecting block or if the existing jack is a 548A or equivalent, use a 1A converter or 225A adapter ♦which accepts the D4BU plug-ended mounting cord.♦

‡Refer to Table A for available color and applique information.

3.02 The internal connections for the 930-, 2930-type, and 2931B telephone sets, for nonkey system use, are shown in Fig. 8 and 9, respectively.

3.03 Connections for 1A KTS do not require any set modifications and are the same as Fig. 8 and 9.

3.04 Connections for use with 1A1 or 1A2 KTS are shown in Fig. 10 for 930-type telephone set and Fig. 11 for 2930-type or 2931B telephone set. Table D includes necessary wiring modifications required for 1A1 and 1A2 key telephone system use.

3.05 To gain access to the interior of these telephone sets for wiring changes, refer to appropriate paragraph in Part 4.

3.06 ♦The D-180896 Kit of Parts polarity guard assembly is used in the 2930A, 2930B, and 2931B telephone sets. Refer to Table E for connections when installing the polarity guard assembly where specified by local instructions.♦

#### 3.07 Line and Ringer Connections.

- (1) For single line and two-party service, refer to Tables B and C.
- (2) For adjustments and ringer cutoff feature of the P1A ringer, refer to Section 501-259-101.

### 4. REMOVAL OF TELEPHONE COMPANY-OWNED COMPONENTS

4.01 When it is desired to discontinue telephone service of the 930-, 2930-, and 2931-type DESIGN LINE decorator telephones, proceed as follows.

**Note:** Remove only the telephone company-owned components that can be easily removed.

#### (a) 930A and 2930A sets.

- (1) Remove handset and mounting cords from the bottom of the telephone set.
- (2) Remove the four bottom plate and lower housing mounting screws (Fig. 4).

**Caution:** Bottom plate and lower housing are now loose and care should be taken not to drop them.

◆ TABLE A ◆

## COMPONENT PARTS ORDERING GUIDE

TEL SET CODE* (NOTE)	PLASTIC COLOR	APPLIQUE	TRIM COLOR	DIAL INSERT COLOR	DIAL	HANDSET CORD	MTG CORD
930B30-	Dark Green	Green Vinyl	Gold	Gold	8HA-120 or 8HT-120	H4DU-	D4BU-
2930B30-				None	35AH3D		
930B31-	White	White Vinyl	Chrome	Chrome	8HA-119 or 8HT-119		
2930B31-				None	35AH3D		
2931B33-	Black	Commemorative Medallion	None	None	35AW3D		
2931B35-		Commemorative Non-Medallion					
930A30-	Dark Green	Green Leather	Gold	Gold	8HA-120 or 8HT-120		
2930A30-				None	35Y3D		
930A31-	White	Pigskin Leather	Chrome	Chrome	8HA-119 or 8HT-119		
2930A31-				None	35Y3D		

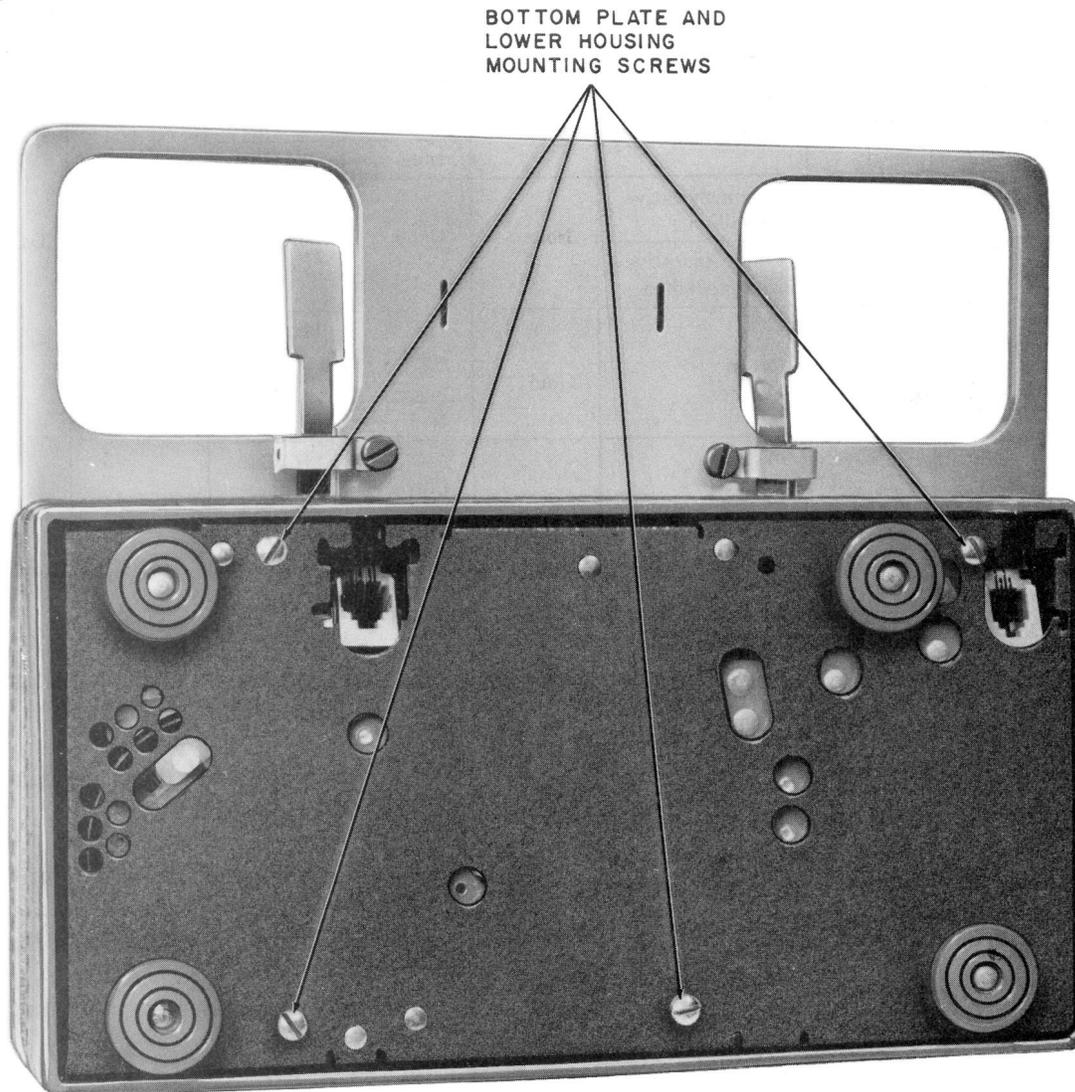
Note: MD codes.

- (3) Remove bottom plate and lower housing.
  - (4) Remove handset cord jack and mounting cord jack from brackets by lifting off (Fig. 5).
  - (5) Remove four upper housing mounting screws (Fig. 5) which secure upper housing and remove upper housing.
  - (6) Turn handset mounting plate and telephone set base over and remove hair pin clip and connecting pin from switchhook linkage.
  - (7) Remove four telephone set base mounting screws (Fig. 5) and remove base.
  - (8) Reassemble upper housing to handset mounting plate (Fig. 5).
  - (9) Reassemble lower housing and bottom plate to handset mounting plate (Fig. 4).
- (b) **930B, 2930B, and 2931B sets.**
- (1) Remove handset and mounting cords from the back of the telephone set.
  - (2) Remove the four lower housing mounting screws (Fig. 6).
- Caution: Upper housing and handset mounting plate are now loose and care should be taken not to drop them.**
- (3) Remove upper housing and handset mounting plate.
  - (4) Remove handset cord jack and mounting cord jack by lifting out (Fig. 7).
  - (5) Remove screws holding company-owned components to base and remove components.
  - (6) Reassemble handset mounting plate and upper housing on lower housing.

**SECTION 503-200-103**

**4.02** Follow local procedures for returning telephone company-owned components.

**4.03** When it is desired to return a set to Western Electric for repair, it should be packed using an appropriate protective packing material.



**Fig. 4—930A- (MD) or 2930A-Type (MD) Telephone Set, Bottom View**

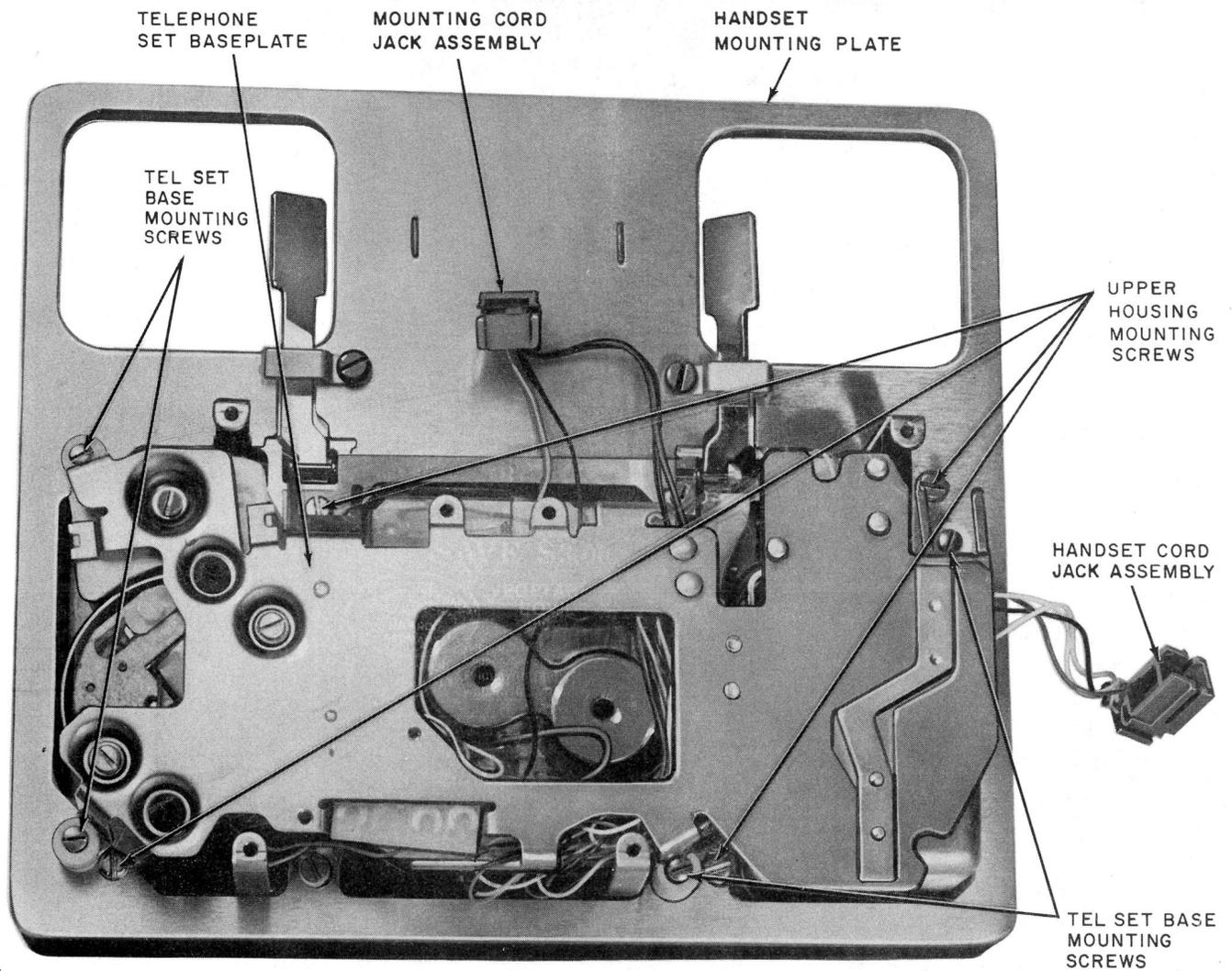


Fig. 5—2930A-Type (MD) Telephone Set with Lower Housing Removed

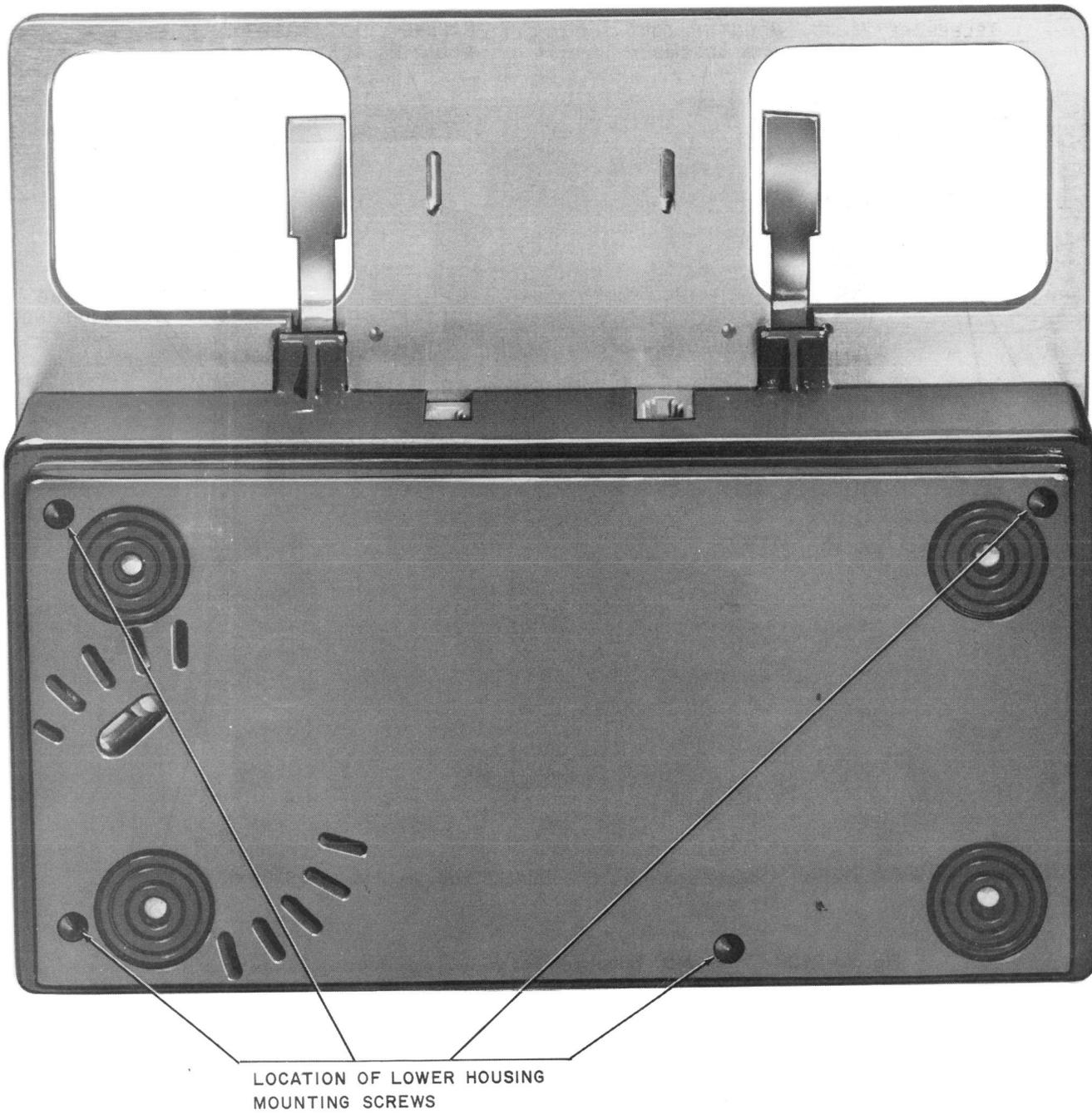


Fig. 6—930B- (MD), 2930B- (MD), or 2931B-Type (MD) Telephone Set, Bottom View

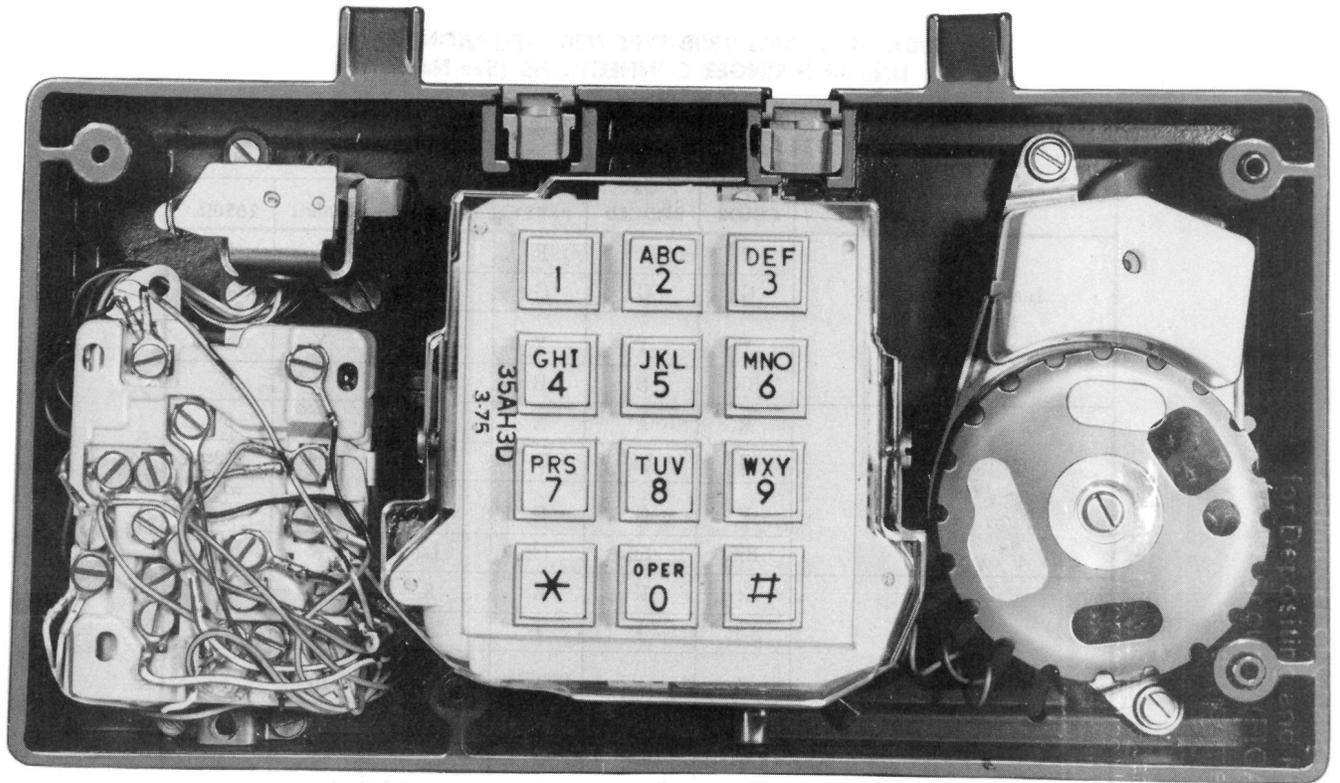


Fig. 7—2930B-Type (MD) Telephone Set, Upper Housing, and Handset Mounting Plate Removed

TABLE B

**930A- (MD) AND 930B-TYPE (MD) TELEPHONE SETS  
LINE AND RINGER CONNECTIONS (See Note)**

WIRE OR LEAD	COLOR	INDIV OR BRIDGED	RING PARTY	TIP PARTY		
				NO ID GROUND	ID GROUND	
					1000Ω	2650Ω
Inside Wire at 625- Type Conn Blk	R	R	R	R	R	R
	G	G	G	G	G	G
	Y	Y	Y	Y	Y	Y
	BK	B	B	B	B	B
623P4 Line Cord Jack Assy	R	A	A	L1	F	F
	G	L1	L1	A	L2	L2
	Y	G	G	G	G	G
	BK	L2	L2	L2	*	*
Ringer	R	K	K	K	K	K
	S-R	*	*	*	*	L1
	S	*	*	*	L1	*
	BK	L1	G	G	G	G
Line Switch	Y	A	A	A	L2	L2
	W	F	F	F	B	B

**Note:** For access to set wiring, follow applicable steps on Part 4.

\* Insulated and stored.



TABLE C

**2930A- (MD), 2930B- (MD), AND 2931B-TYPE (MD) TELEPHONE SETS  
LINE AND RINGER CONNECTIONS (See Note)**

WIRE OR LEAD	COLOR	INDIV OR BRIDGED	RING PARTY	TIP PARTY		
				NO ID GROUND	ID GROUND	
					1000Ω	2650Ω
Inside Wire at 625- Type Conn Blk	R	R	R	R	R	R
	G	G	G	G	G	G
	Y	Y	Y	Y	Y	Y
	BK	B	B	B	B	B
623P4 Line Cord Jack Assy	R	A	A	L1	C	C
	G	L1	L1	A	S	S
	Y	G	G	G	G	G
	BK	L2*	L2*	L2*	†	†
Ringer	R	K	K	K	K	K
	S-R	†	†	†	†	L1
	S	†	†	†	L1	†
	BK	L1	G	G	G	G
Line Switch	Y	A	A	A	L2*	L2*
	W	F	F	C	B	B
	BR	C	C	F	F	F

**Note:** For access to set wiring, follow applicable steps on Part 4.

\* Terminals on terminal S in the 2930A-type (MD) telephone set.

† Insulated and stored.



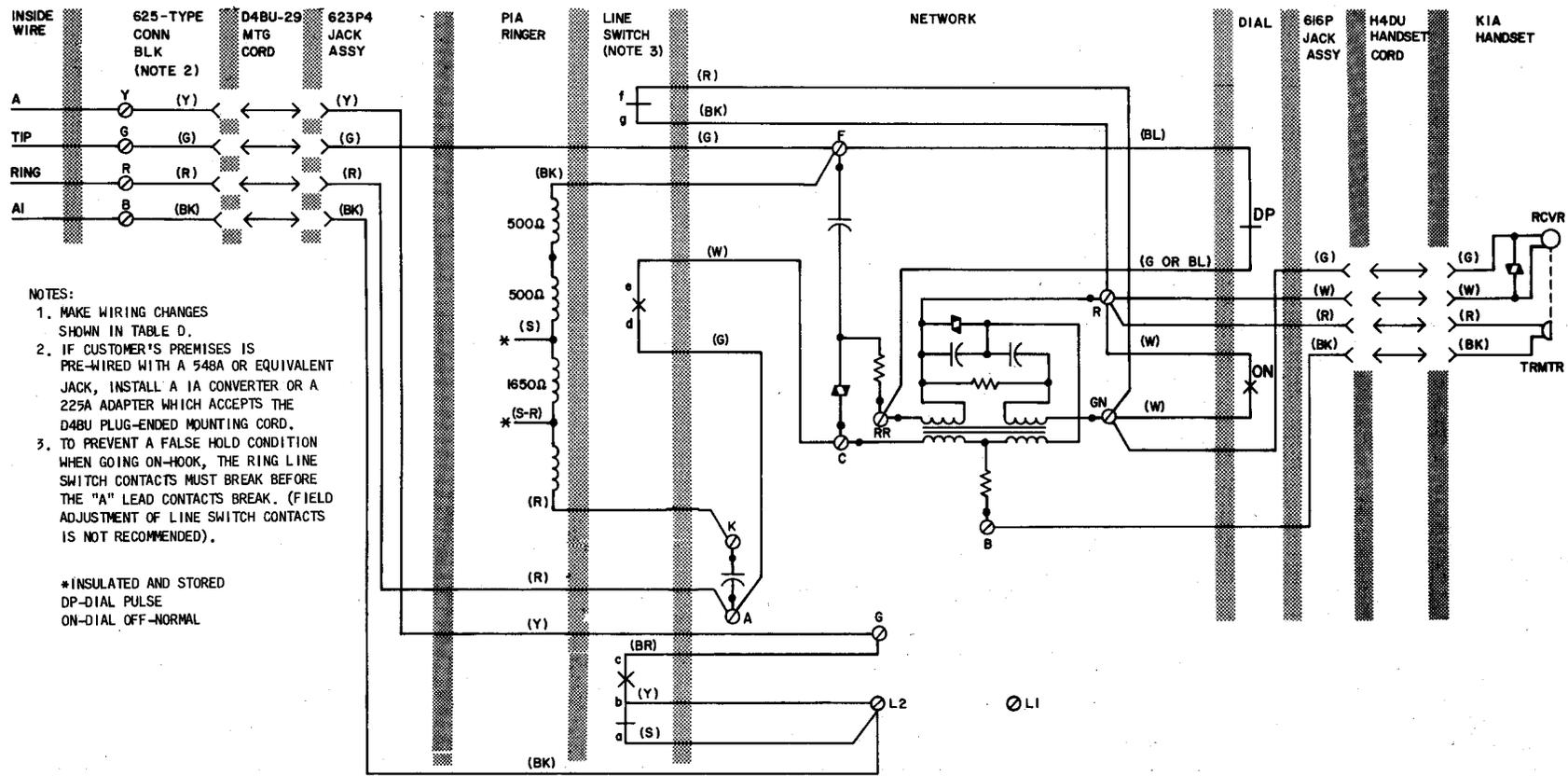
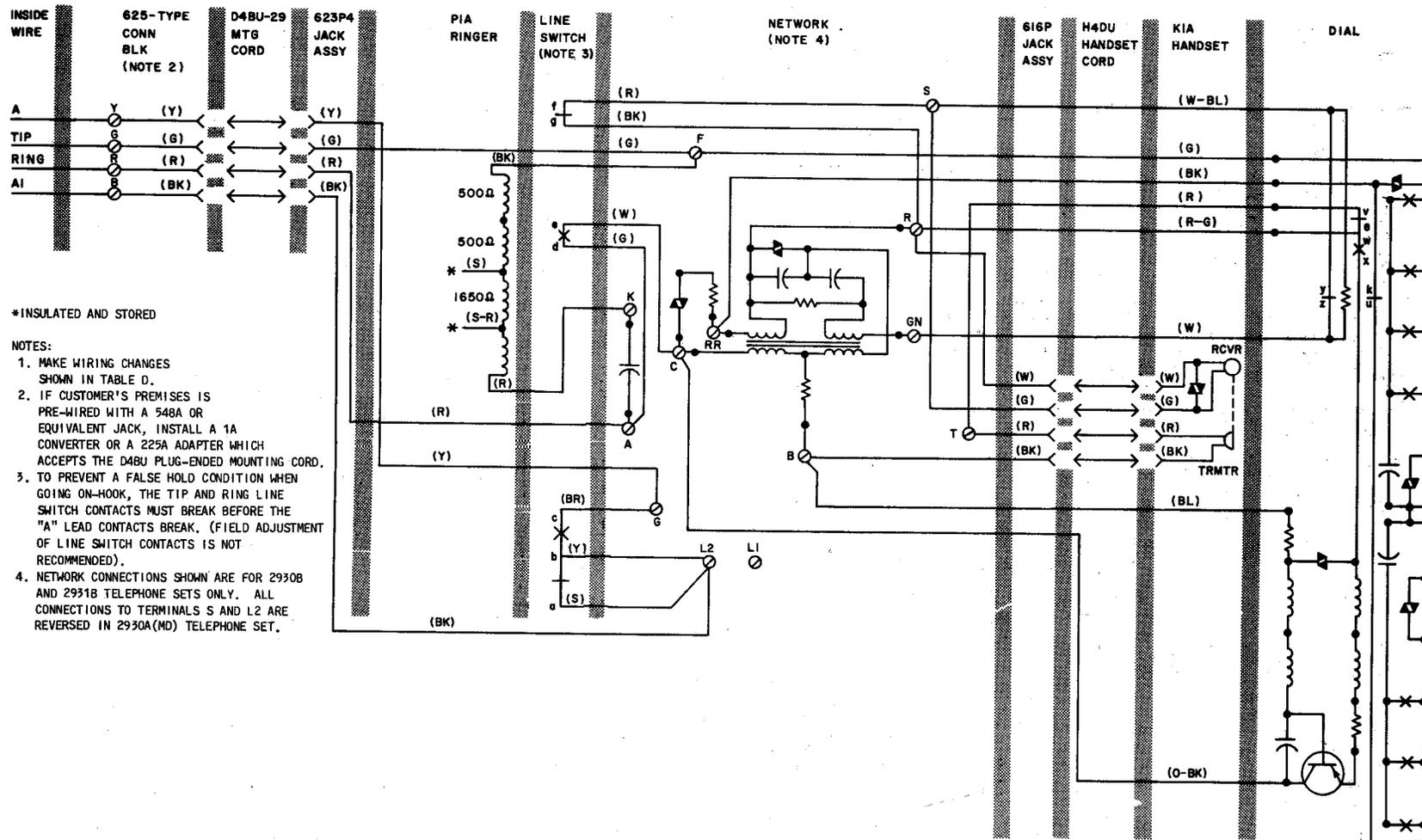


Fig. 10—930A- (MD) or 930B-Type (MD) Telephone Set Wired for 1A1 or 1A2 KTS



\*INSULATED AND STORED

NOTES:

1. MAKE WIRING CHANGES SHOWN IN TABLE D.
2. IF CUSTOMER'S PREMISES IS PRE-WIRED WITH A 548A OR EQUIVALENT JACK, INSTALL A 1A CONVERTER OR A 225A ADAPTER WHICH ACCEPTS THE D4BU PLUG-ENDED MOUNTING CORD.
3. TO PREVENT A FALSE HOLD CONDITION WHEN GOING ON-HOOK, THE TIP AND RING LINE SWITCH CONTACTS MUST BREAK BEFORE THE "A" LEAD CONTACTS BREAK. (FIELD ADJUSTMENT OF LINE SWITCH CONTACTS IS NOT RECOMMENDED).
4. NETWORK CONNECTIONS SHOWN ARE FOR 2930B AND 2931B TELEPHONE SETS ONLY. ALL CONNECTIONS TO TERMINALS S AND L2 ARE REVERSED IN 2930A(MD) TELEPHONE SET.

Fig. 11—2930A- (MD), 2930B- (MD), or 2931B-Type (MD) Telephone Set Wired for 1A1 or 1A2 KTS

TABLE D

930- (MD), 2930- (MD), AND 2931B-TYPE (MD) TELEPHONE SETS MODIFICATIONS FOR 1A1 OR 1A2 KTS  
(See Note)

LEAD	COLOR	NET. TERMINAL		
		REMOVE FROM	930-TYPE TEL SET	2930- AND 2931B-TYPE TEL SET
			CONNECT TO	CONNECT TO
Line Switch	S	A	L2	L2*
	Y	A	L2	L2*
	BR	C	G	G
	G	L1	A	A
	W	F	C	C
623P4 Line Cord Jack	G	L1	F	F
Ringer	BK	L1	F	F

**Note:** For access to set wiring, follow applicable steps on Part 4.

\* Terminates on terminal S in the 2930A (MD) telephone set.

TABLE E

POLARITY GUARD CONNECTIONS (See Note)

LEAD	COLOR	DISCONNECT FROM	CONNECT TO	
		NET.	NET.	POLARITY GUARD
Dial	BK	RR		T
Line Switch	BR ①	C		S
	W ②			
623P4 Line Cord Jack	R ③			
Polarity Guard	G		RR	C
	W			

**Note:** For access to set wiring, follow applicable steps on Part 4.

- ① If wired for bridged service or ring party.
- ② If wired for tip party with no identification ground, 1A1 KTS, or 1A2 KTS.
- ③ If wired for tip party with identification ground.